

CLASSIFICATION SECRET/SECURITY INFORMATION

CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

COUNTRY Czechoslovakia
SUBJECT Chemical and Metallurgical Works
National Corporation in Usti nad
Labem
PLACE ACQUIRED [redacted] 50X1
DATE ACQUIRED [redacted] 50X1
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REPORT NO.

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THIS IS UNEVALUATED INFORMATION

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1. The Chemical and Metallurgical Works, National Corporation, is located in the center of the city of Usti nad Labem, opposite the "Teplce" railroad station. The area of the plant is 2500 x 2200 meters.
2. The following products are manufactured at the plant: explosives, acids, anti-chlor for filling gas bombs [sic], be-naphtol [sic], electrolyse [sic], sulphuric acid, nitric acid, Gesarol, trichlor [sic], chlorine and other solvents, semi-finished goods, hydrosine-sulphates [sic], and potash. The hall in which hydrosine-sulphates are to be made is still under construction.
3. The following raw materials are used: mercury, pyrites, salt, and various acids. They are supplied by plants in Semtin, Brno, Bratislava, and Pardubice. Coal is supplied by rail from the coal mines in Most, water comes from the city water works in Usti nad Labem, and electricity from the public electric power network.
4. The plant has its own electric railway with 15 cars. It also has electric and battery lorries, four 10-ton Tatra trucks, four 5-ton Praga RN-Diesel trucks, four 2½-ton RN-Diesel trucks, six passenger cars (two Tatrapians, two Mercedes, two Fords), one steam locomotive and two electric locomotives.
5. At a plant meeting it was announced that the net profit of the plant for the second half of 1951 was 30 million Kcs.
6. The most expensive phase of production at the plant is electrolysis, and the employees of the electrolysis division receive the highest wages. The division produces potash bucks, chlorine and hydrogen, by processing "Solanka" [sic] with mercury and water in electrolytic baths charged with an electric current of 10 thousand amperes in continuous circulation. An electric motor of 1.5 kw causes the circulation. The division has a total of 150 baths for electrolysis which are arranged in three rows. Potash buck comes through pipes into a tank. Samples are taken of the liquid which then goes through other pipes for further processing. Chlorine is fed by pipes into a "chlorine station" from which it then is conducted into another hall for further processing. Hydrogen is carried by narrow pipes from each bath into a main pipeline and then into a tank. The baths need the following materials for the production of the above goods: 600 kg of mercury, water, and salt which is brought by a pipeline. There are 60 grills, 42 electrodes and seven phosphate plates in each bath. Each processing lasts six weeks. After this time, the baths have to be cleaned and repaired. The baths are protected against explosion by airtight closing. Water and "solanka" are brought into the bath through which an electric current of 1,500 amperes is fed. The current is gradually increased to 10 thousand amperes. The total consumption of mercury in a one month period is 300 thousand kilograms. [redacted] the chief

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engineer of this division say that the electrolysis division of the plant does not bring any profit whatsoever; on the contrary, the plant works at a loss since one kilogram of mercury costs \$10.00. All measures are taken to prevent waste of mercury; all wastes are carefully collected and enclosed in vacuum bottles. The division works day and night.

7. The electrolytic division has two dynamos of its own which are used in case of emergency when the main supply of electric power is interrupted. The above-described electrolysis division is called Elektrolysa I. There is another electrolytic division in the plant, Elektrolysa II. The production of this division is the same as that in Elektrolysa I although the equipment consists of only 75 baths.

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There are 3000 workers employed at the Chemical and Metallurgical Plant in Usti. Approximately 50% of these are skilled workers, 700 administrative and technical employees. The highest wage of a skilled worker is 6,000 Kcs a month; the lowest wage of a non-skilled worker (helpman) is 2,500 Kcs a month. About half of the workers are Communist Party members. Of this number, however, only about one third can be considered reliable Communists.

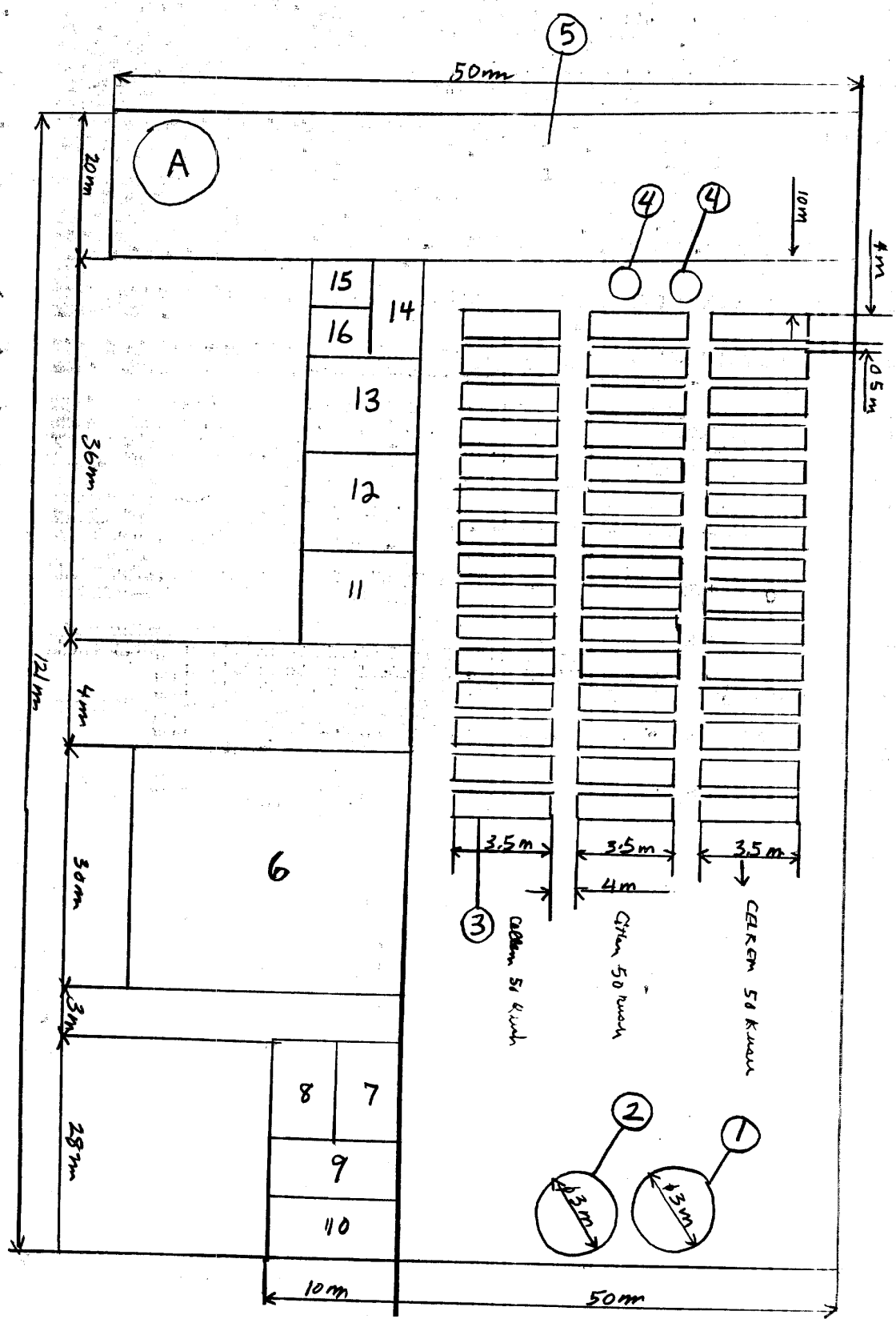
9. Employees work in three shifts; only about 10% of the total number of employees work in each shift.
10. The plant is accessible by a railway track which connects it with the main line of the Czechoslovak State Railroads in the station of Usti nad Labem.
11. Employees are admitted to the plant by special passes. The plant has its own factory guard of 60 men on duty at all times. At one time the plant had 240 factory guards. The guards have six dogs at their disposal. Members of the guard are reliable Communists. In addition, there is also a workers' militia in the plant. I don't know how many members there are. In the ammunition depot of the workers' militia there are rifle submachine guns and hand-grenades. The militia members are trained at the rifle range in Olesko near Terezin. The fire brigade of the plant has 30 members, two fire-engines and fire-extinguishing equipment.
12. The warehouses are located in the plant itself. Each division has its own warehouse.

- end -

- ENCLOSURE (A): Sketch of Elektrolysa I with Legend
(B): Sketch of an Electrolytic Bath with Legend
(C): Sketch Showing Location of the Chemical and Metallurgical Works in Usti nad Labem with Legend
(D): Sketch of the Chemical and Metallurgical Works in Usti nad Labem with Legend

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SKETCH OF ELECTROLYSA I WITH LEGEND



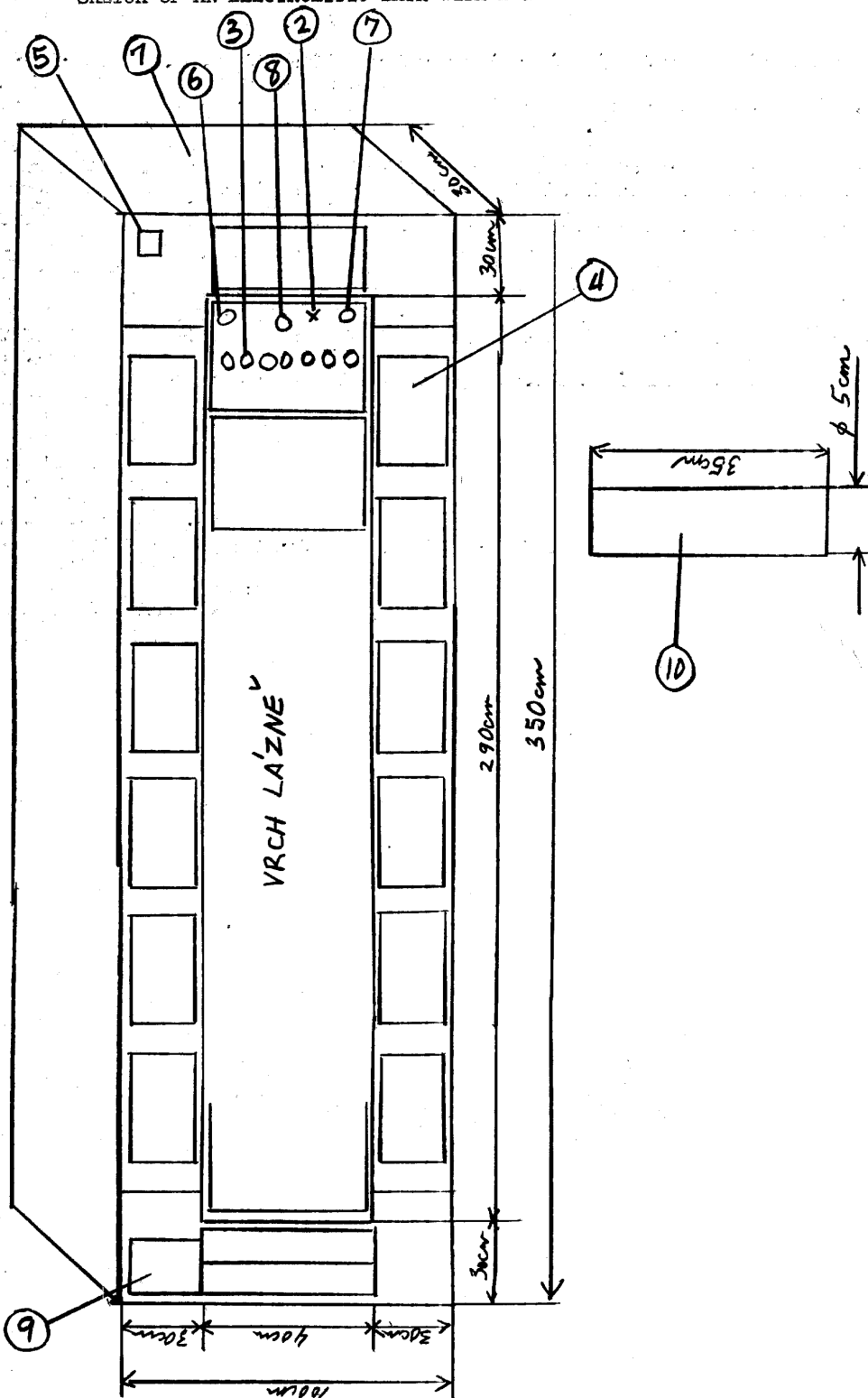
Legend:

- 1... Tower for ammonia. A metal cylinder three meters in diameter and six meters high. Pipes lead from the tower to the baths.
- 2... Tower for hydrogen. A cylinder three meters in diameter and six meters high. Pipes three mm in diameter lead from the tower to the baths.
- 3... Three rows of 50 baths.
- 4... Two metal tanks, 150 centimeters in diameter. These tanks are 150 centimeters above the ground. Potash buck is conducted into the tanks where samples of liquid are taken to be tested in laboratories.
- 5... Division for "diluting" which is a part of the electrolytic procedure. It is a three story brick building. The ground floor serves as a warehouse for salts. Salts from here are carried into a wooden barrel, 10 meters high and five meters in diameter. The salt is carried by conveyors into a mixer; from the mixer the diluted salt is pumped into presses located on the second floor of the building. In the presses salt is filtered and the pure "solanka" is conducted into coolers from where it goes into the baths.
- 6... Two dynamos for the production of electric power. The diameter of the dynamos is three meters.
- 7... Foremen's office
- 8... Foremen's office
- 9... Foremen's office
- 10... Lockers for workers
- 11... Locksmith's workshop
- 12... Electrotechnical workshop
- 13... Storage of filter grills for the electrolytic baths
- 14... Storage of work clothing
- 15... Bathrooms for the foremen
- 16... Offices of the foremen

ENCLOSURE (B)

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SKETCH OF AN ELECTROLYTIC BATH WITH LEGEND

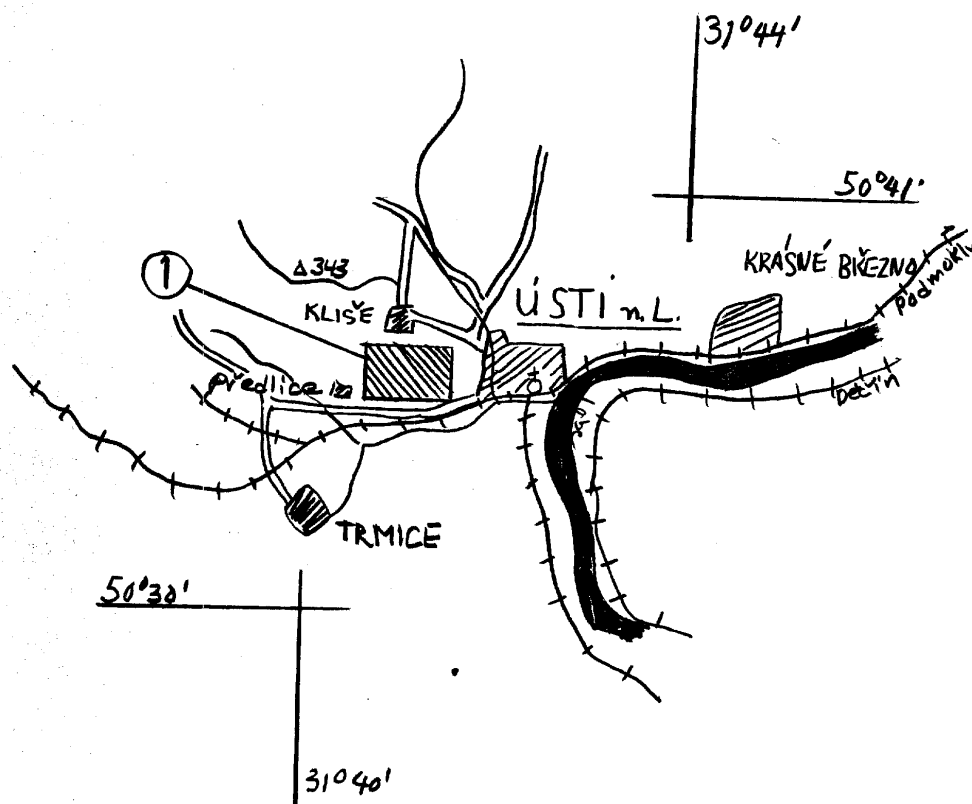


Legend:

- 1... The bath. A steel and concrete construction.
- 2... Tile plates; each bath has seven such plates, each plate having six holes for electrodes.
- 3... Holes for electrodes
- 4... Iron plates, on which are fixed filter grills. Each bath has approximately 50 such grills.
- 5... Electromotor of 1.5 kw for driving the circulation of the liquid.
- 6... Pipes for "solanka" (purified salt)
- 7... Water pipes
- 8... Hydrogen pipes through which hydrogen is carried into the hydrogen tower
- 9... Opening through which the waste leaves the bath; this material is called "amalgam"
- 10... Electrodes fixed in tile plates. These electrodes are put on the bottom of the bath and reach about five centimeters over the liquid level.

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SKETCH SHOWING LOCATION OF THE CHEMICAL AND METALLURGICAL WORKS IN USTI NAD
LEBEM WITH LEGEND



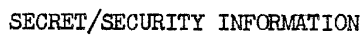
Map 32 51 Litomerice
(Enlarged from 1: 200,000 to 1: 80,000)

Legend:

1... Chemical and Metallurgical Works in Usti nad Labem

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PLANER - 3



Legend:

- 1... Gatekeeper's lodge; a one-story brick house, 10 x 10 meters, with a tile roof. In the house is a control clock and telephone. In the lodge three men of the factory guard are always on duty.
- 2... The administrative building; a seven-story brick building, 40 x 20 meters, in which are accommodated the following units: directorate, personnel division, administrative offices, cadre division, factory broadcast, cashier, dental surgeon, medical dispensary (first aid), security officer, housing and social security officers.
- 3... Canteen; a one-story wooden building, 30 x 15 meters, with a tar-paper roof.
- 4... Kitchen; a two-story brick building, 25 x 15 meters, with a tile roof.
- 5... Fire station; a one-story brick house 15 x 15 meters, with a flat concrete roof. Inside is the fire equipment.
- 6... Construction offices; a two-story brick building, 30 x 15 meters, with a tile roof.
- 7... Repair workshops for brass instruments; a one-story brick building 15 x 10 meters, with a tile roof.
- 8... Main workshops; a one-story factory hall. The roof is shaped in the form of two reverse "V's"; the first "V" is made of glass; the second is covered with tar paper. The hall is 80 x 40 x 8 meters, and contains machine tools, lathes, grinding machines, drilling machines, metal planing machines, a large crane, and plumbers' and welding equipment.
- 9... are divisions for sulphates.
- 9... A one-story brick building 40 x 20 meters.
- 10... A one-story brick building, 30 x 15 meters
- 11... A one-story brick building. Buildings 9-11 have tile roofs.
- 12... Main warehouse for materials; a one-story building 40 x 20 meters, with a flat roof. In the warehouse is stored band-iron, steel rods and bars of various sizes, ball bearings, copper faucets, welding rods etc.
- 13... Workshop for repair and laying of pipes; a one-story brick building 30 x 15 meters, with a tile roof.
- 14... Offices of the Workers' Council; a one-story brick building 15 x 15 meters with a tile roof.
- 15... Workshops for repair and laying of pipes; a one-story brick building, 20 x 10 meters.
- 16... Division of semi-finished products; a three-story brick building, 60 x 30 meters, with a roof made partly of tiles and partly of tar-paper.
- 17... Main boiler hall; a brick building, 30 x 30 meters, with tile roof; The boiler room supplies the entire plant.
- 18... Chlorine division; a one-story brick building, 40 x 20 meters, with a tile roof.
- 19... Division for dissolving of chlorine; a one-story brick building 40 x 20 meters, with tile roof.
- 20... Power-plant which supplies the entire plant; a brick building, 30 x 30 meters with a tile roof.
- 21... Division for the production of betanaphtol; a one-story brick building, 40 x 15 meters. One floor of this building is under ground.
- 22... Division for the production of sulphates; a one-story building 40 x 12 meters with tile roof.
- 23... Storage for raw material wastes. The unit is equipped with a large crane; the area is enclosed by a wall two meters high; the size of this area is 60 x 25 meters.
- 24... A one-story brick building, 40 x 10 meters, with a tile roof.
- 25... Cabinet maker's workshop; a one-story wooden barrack, 40 x 20 meters with a tar paper roof.
- 26... Division for the production of the material called Vinidur; Vinidur is plastic material of various colors which has qualities of metal and is used for the production of pipes for hydrogen. It is a two-story brick building, 25 x 25 meters, with a tile roof.
- 27... Division for the production of rubber; a two-story building 25 x 25 meters with a tile roof.
- 28... Division for the production of "antichlor". "Antichlor" tastes like bitter almonds and is used for filling gas-bombs. The workers here wear gas masks. This hall is a two-story brick building, 25 x 25 meters, with a tile roof.
- 30-32 are divisions for the production of "permanganate" (explosives).
- 30... A brick building 30 x 15 meters with a tile roof.
- 31... A brick building, 30 x 30 meters, with a tile roof.
- 32... A brick building 30 x 10 meters with a tile roof.
- 33... Electrolysis II. A one-story brick building with a tile roof, 60 x 30 meters.
- 34... Chlorine station, a two-story brick building, 30 x 30 meters, with a flat concrete roof.
- 35... Offices of the electrolysis division; a one-story brick building 15 x 15 meters with tile roof.
- 36... A one-story brick building, 30 x 30 meters, with a tile roof.
- 36A... Repair workshops for the division of electrolysis
- 36B... Workshops for the division of electrolysis (a brick building).
- 36C... Lockerrooms for the employees of the electrolysis division.
- 37... Electrolysis I. Size of this building is 120 x 50 meters.
- 38... A one-story brick building, 40 x 25 meters, with a flat concrete roof.
- 38A... Division for the cristallization of potash bucks
- 38B... Auxiliary building for sulphur production.
- 39... A two-story brick building, 60x 20 meters, with a flat concrete roof.
- 39A... Division for the production of Gesarol. This division is heavily guarded day and night. There are also warning signs: Entrance strictly forbidden.
- 39B... Division for the production of "trichlor".
- 40... Factory railway track which connects the plant with the line of the Czechoslovak State Railways in the station of Usti nad Labem. (The Teplice Station).

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- 41... The Teplice station in Usti nad Labem (Teplicke nadrazi) which is called West station.
- 42... Double-track railway of the Czechoslovak State Railroads, Usti nad Labem - Teplice.
- 43... State highway Usti nad Labem - Teplice.
- 44... Storehouse for mercury; a one-story wooden barrack, 12 x 12 meters.
- 45... Division for the processing of sulphur; a two-story brick building, 40 x 30 x 10 meters with a tile roof. The factory chimney of this division is 35 meters high.
- 46... Division for the production of nitric acid; a one-story brick building, 30 x 10 meters, with a tile roof.
- 47... Machinery hall "DEBA" for performing of small repairs and of various special jobs. The division serves the entire plant. The building is a two-story brick construction with a tile roof.
- 48... A building under construction.
- 49... Garages; a one-story brick building, 40 x 20 meters.
- 50... A brick wall enclosing the whole plant.
- 51... Division for the production of dyes; a one-story brick building 30 x 15 meters.
- 51A.. Division for the production of dyes; a two-story building, 30 x 15 meters.
- 52... Two brick buildings - functions and sizes unknown to me.